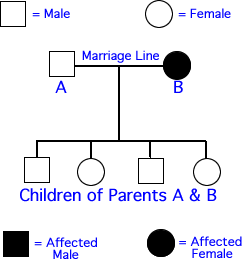
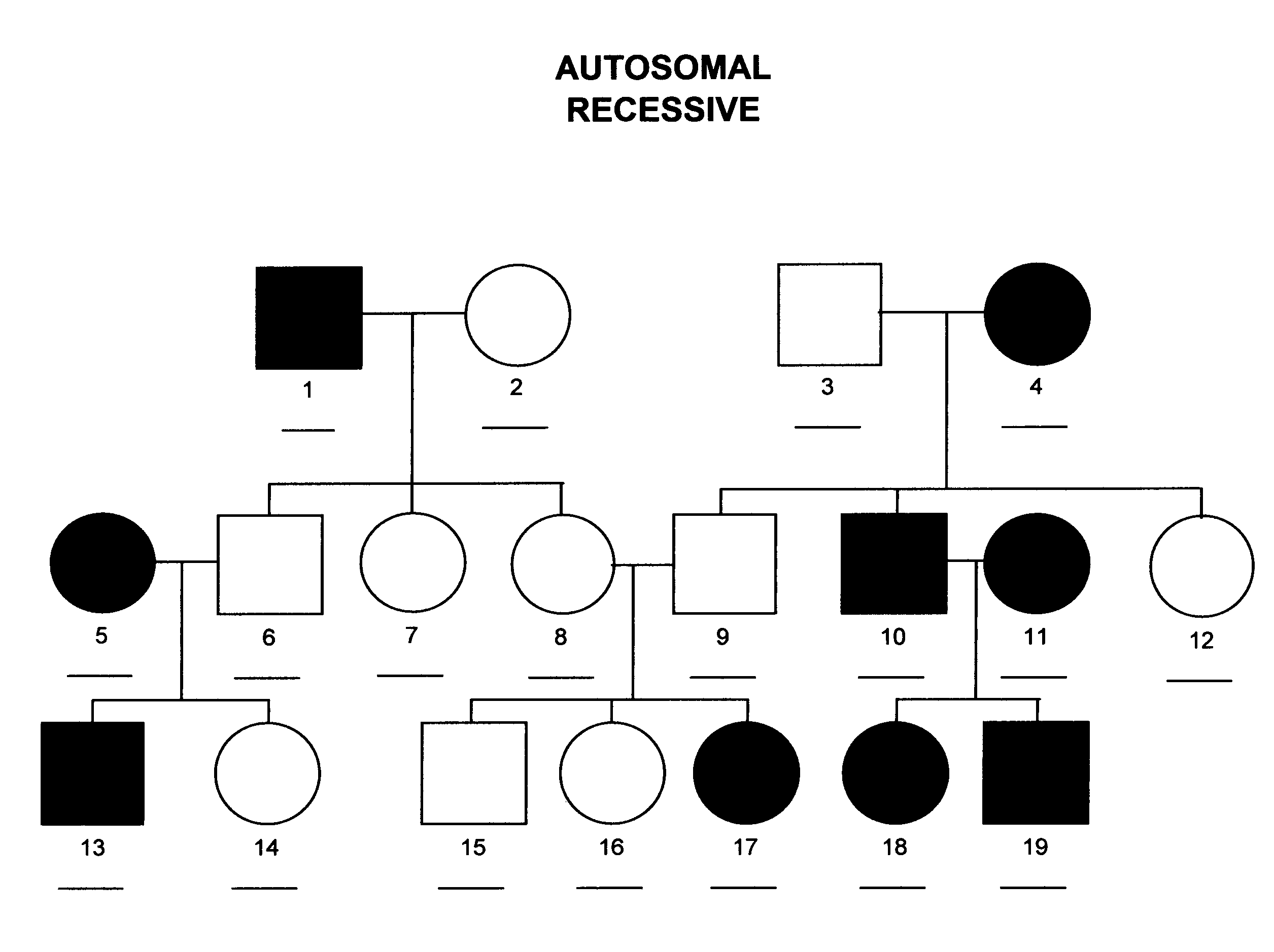
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_

**Pedigrees**

Background: Pedigrees are charts of an individual's ancestors used in human genetics to analyze Mendelian inheritance of certain traits. Each of the pedigrees on this chart display a different pattern of inheritance (autosomal recessive, autosomal dominant, X-linked recessive, or X-linked dominant)

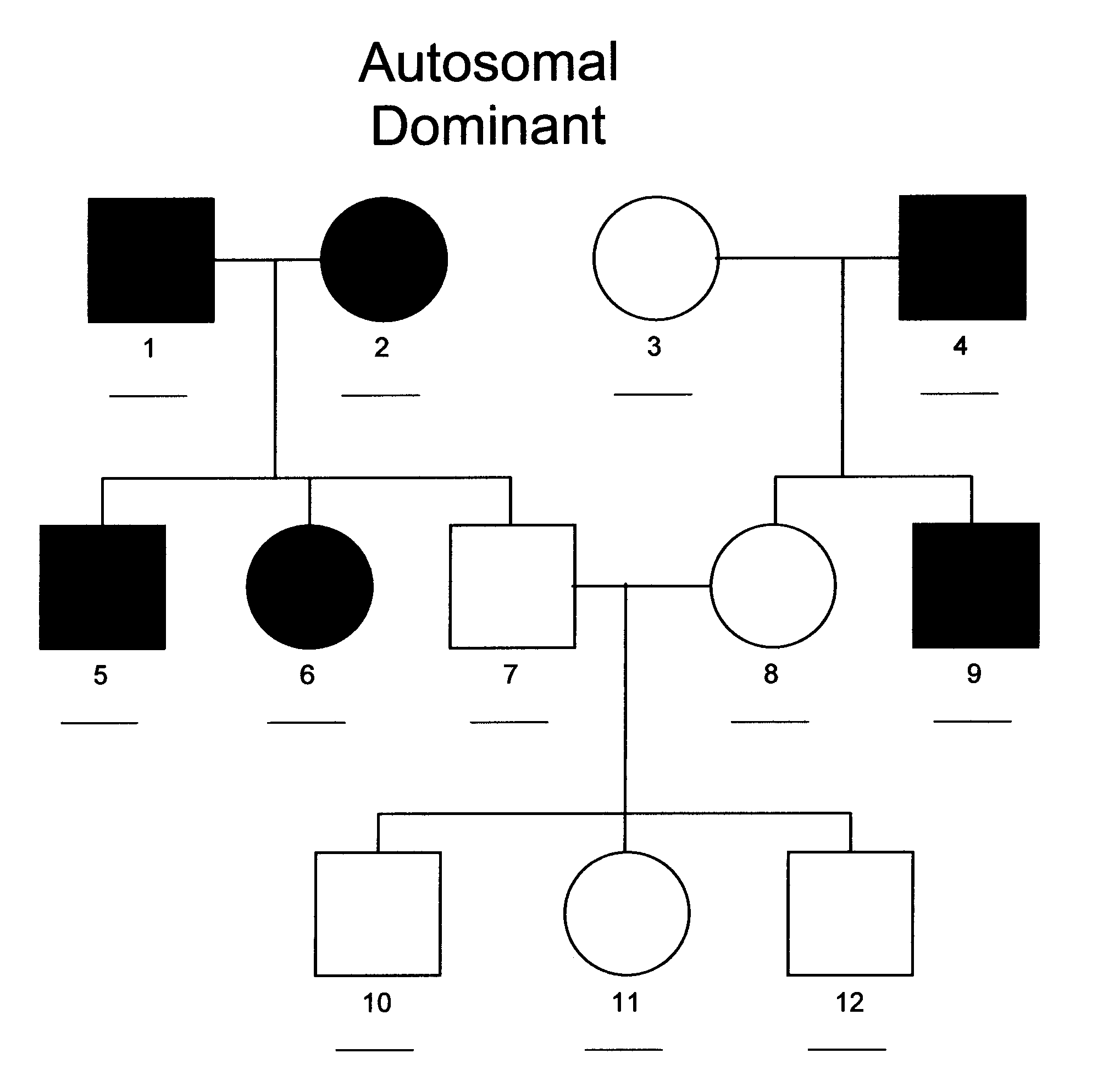
Resource: Ch. 7.4 in textbook

Pedigree 1



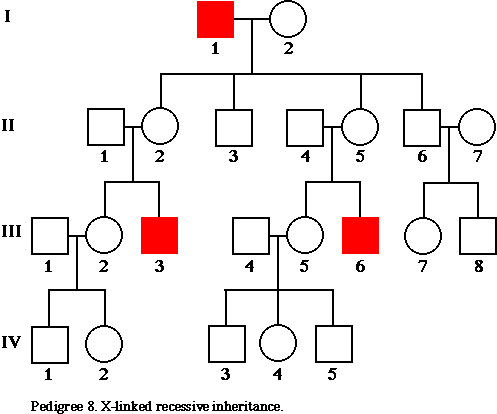
1. What patterns do you see? (Who has the trait/disease and who doesn’t?)
2. What pattern of inheritance would explain how the trait/disease is passed on? Give reasoning for your answer.
3. Test out your answer to # 2! Assign potential genotypes to individuals on the pedigree. Keep trying until you find genotypes that fit the pattern of inheritance shown. Do Punnett squares if need be.
4. Do you need to change your answer to #2? If so, what is your new answer?
5. Name a trait/disease that follows the pattern of inheritance shown.

Pedigree 2

****

1. What pattern of inheritance would explain how the trait/disease is passed on? Give reasoning!
2. Test out your answer to #6! Assign potential genotypes to individuals on the pedigree. Keep trying until you find genotypes that fit the pattern of inheritance shown. Do Punnett squares if need be.
3. New answer for #6, if applicable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Name a trait/disease that follows the pattern of inheritance shown.

Pedigree 3



1. What pattern of inheritance would explain how the trait/disease is passed on? Give reasoning!
2. Name a trait/disease that follows the pattern of inheritance shown.